

CLAIMS:

1. A method of controlling a local application of drugs to a part of a body of a patient during a CT scan, wherein the drugs are transported in containers suitable for introduction into a bloodstream of the patient; wherein the containers prevent an application of the drugs; wherein a first drug is transported in a first container; the
5 method comprising the step of: rupturing the first container in proximity to the part of the body, resulting in a local application of the first drug to the part of the body.
2. The method according to claim 1, further comprising the step of:
monitoring a heart beat rate of a heart of the patient; wherein the part of the body the
10 drugs are locally applied to is the heart of the patient; wherein the first drug is locally applied to the heart of the patient by rupturing the first container in proximity to the heart; and wherein the rupturing the first container is performed on the basis of the heart beat rate, resulting in a controlled change of the heart beat rate.
- 15 3. The method according to claim 1, wherein the first container has a first resonance frequency such that when an ultrasonic energy pulse with a first frequency corresponding to the first resonance frequency is applied to the first container, a rupture of the first container occurs and the first drug is released from the first container;
wherein the rupturing of the first container is performed by means of a destruction
20 device; wherein the destruction device generates focused ultrasound pulses; and wherein the ultrasound pulses have a first frequency corresponding to the first resonance frequency of the first container.
4. The method according to claim 1, wherein the first container has a first
25 resonance frequency such that when an electro-magnetic energy beam with a first frequency corresponding to the first resonance frequency is applied to the first

container, a rupture of the first container occurs and the first drug is released from the first container; wherein the rupturing of the first container is performed by means of a destruction device; wherein the destruction device generates a beam of electro-magnetic radiation; and wherein the electro-magnetic radiation has a first frequency

5 corresponding to the first resonance frequency of the first container.

5. The method according to claim 1, wherein a second drug is transported in a second container; wherein the first container has a first resonance frequency; wherein the second container has a second resonance frequency; and wherein the first
10 resonance frequency is different from the second resonance frequency.

6. The method according to claim 5, wherein the application of the first drug increases the heart beat rate; and wherein the application of the second drug decreases the heart beat rate.

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7. The method according to claim 1, wherein the containers are micro-bubbles.

8. A CT scanner system adapted for controlling a local application of drugs
20 to a part of a body of a patient during a CT scan, comprising:
a CT scanner; a monitoring device; a data processing device; a destruction device;
wherein the drugs are transported in containers suitable for introduction into a bloodstream of the patient and preventing an application of the drugs; wherein the CT scanner is adapted for acquisition of an image of the part of the body; wherein the
25 monitoring device is adapted for monitoring a heart beat rate of a heart of the patient during the CT scan; wherein the destruction device is adapted for rupturing a container in proximity to the part of the body, resulting in a local application of the drug to the part of the body; and wherein the data processing device is adapted for triggering the rupturing of the container on the basis of the heart beat rate.

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9. The CT scanner system according to claim 8, wherein the drug is locally applied to the heart of the patient on the basis of the heart beat rate; wherein the container has a resonance frequency; wherein the destruction device is adapted for generating one of focused ultrasound pulses and a beam of electro-magnetic radiation;
5 and wherein a frequency of the one of focused ultrasound pulses and the beam of electro-magnetic radiation corresponds to the resonance frequency of the container.

10. A computer program for controlling a local application of drugs to a part of a body of a patient during a CT scan, wherein the computer program causes a
10 processor to perform the following operation when the computer program is executed on the processor: evaluating a heart beat rate of a heart of the patient; triggering a rupturing of a container comprising a drug on the basis of the evaluation of the heart beat rate; wherein the container is located in proximity to the part of the body, resulting in a local application of the drug to the part of the body.

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11. Use of containers for controlling a local application of a drug to a part of a body of a patient during a CT scan, wherein the drugs are transported in containers suitable for introduction into a bloodstream of the patient; wherein the containers prevent an application of the drugs; wherein the containers are ruptured in proximity to
20 the part of the body, resulting in a local application of the drug to the part of the body.